## 38th Annual Meeting, APS Division of Plasma Physics 11-15 November 1996, Denver, CO Abstract Submittal Form

Deadline: Wednesday, 10 July 1996

ect Classification Category	☐ Theory ☐ Experiment
(Refer to the DPP Subject Category list on page M19.)	<u>UCRL-JC-12467</u> 3 Abs
Weakly nonlinear evolution	
M.Berning, A. Rubenchik, M. University, 2) University of Cali College. We have developed a hydrodynamic interface instabilities interface evolution equations of Haperturbation theory. Our nonlineatemporal variation of the interthickness, and material ablation. The hexagonal and rectangular structions incorporated these results into a modern of the interthickness.	Wood-Vasey, <sup>3</sup> 1) Düsseldorf fornia-Davis, 3) Harvey-Mudd Hamiltonian formulation for s in incompressible liquids. The man <sup>1</sup> are extended to third order or theory takes into account the face acceleration, final layer the analytical description of 3D ares was also developed. We had that evaluates the instability
evolution by post processing the o 1D radiative hydrodynamics code growth of the fundamental mode a early nonlinear stages of perturbat spikes. These results were used to	HYADES. We evaluate the nd higher harmonics during the ion evolution into bubbles and interprete experiments done on
the Nova laser to compare the Rayle at an ablation front versus at an	embedded interface. <sup>2</sup> *Work
performed under the auspices of the U.S. Department of Energy by the Lawrence Livermore National Laboratory under contract	
number W-7405-ENG-48.	(1001)
<sup>1</sup> S.W. Haan, Phys. Fluids B <b>3</b> , 2349 <sup>2</sup> K.S. Budil <i>et al.</i> , Phys. Rev. Lett. <b>7</b>	(1991).
R.S. Budit et al., Thys. Rev. Lett. 7	<b>0</b> , 4530 (1990).
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